

(PRIOR ART)
FIG. 1

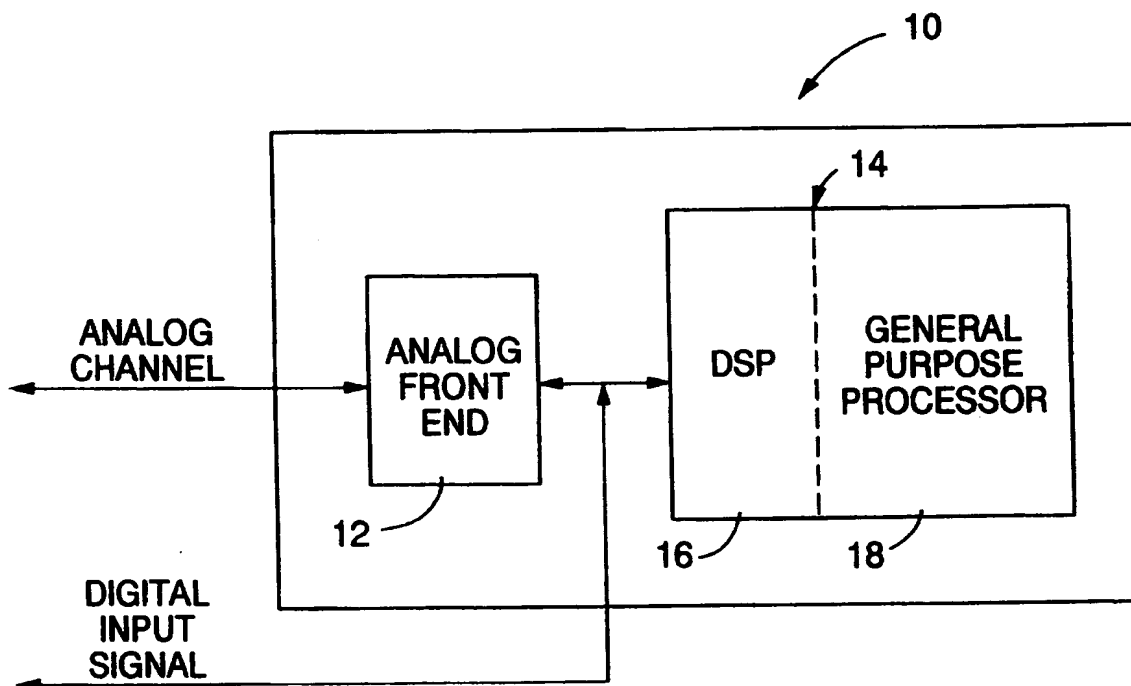


FIG. 2

660210-2472250

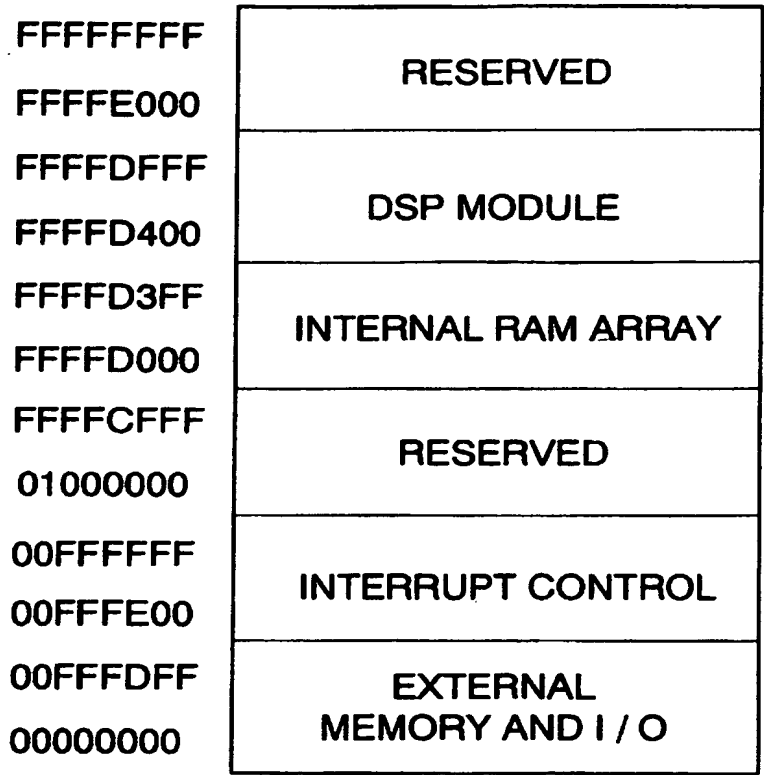


FIG. 5

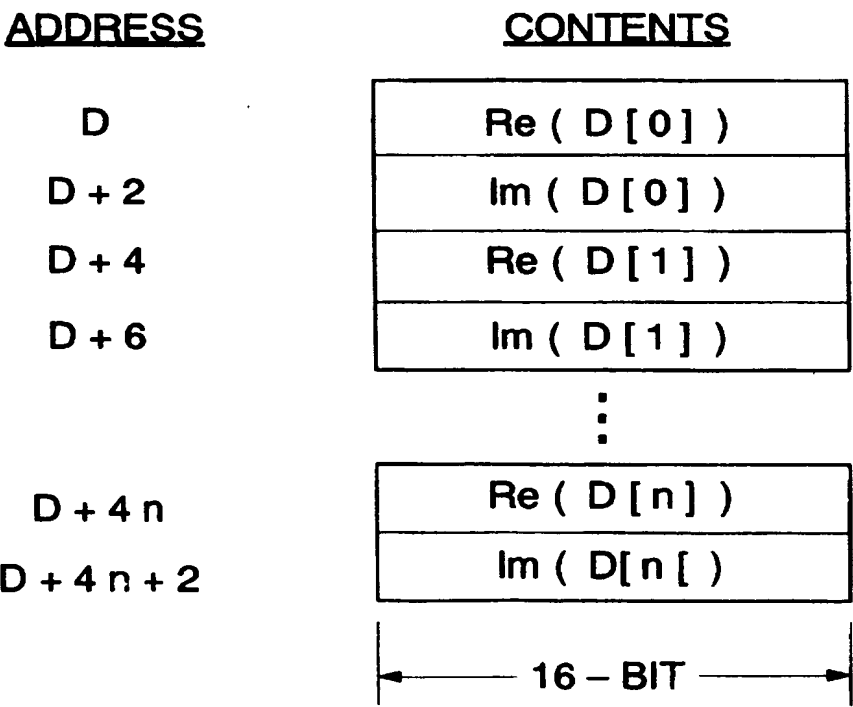


FIG. 6

66000000 20000000

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

INSTRUCTION	OPC1	OPC0	CLR	COJ	OPERATION	CYCLES
VCMAD	0	0	0	0	$C[i] \leftarrow C[i] + Y \times D[i]$	$9 + (N \times 8)$
	0	0	0	1	$C[i] \leftarrow C[i] + Y \times D[i]^*$	
	0	0	1	0	$C[i] \leftarrow Y \times D[i]$	
	0	0	1	1	$C[i] \leftarrow Y \times D[i]^*$	
VCMUL	0	1	0	0	$C[i] \leftarrow C[i] \times (1 + D[i])$	$9 + (N \times 8)$
	0	1	0	1	$C[i] \leftarrow C[i] \times (1 + D[i]^*)$	
	0	1	1	0	$C[i] \leftarrow C[i] \times D[i]$	
	0	1	1	1	$C[i] \leftarrow C[i] \times D[i]^*$	
VCMAC	1	0	0	0	$A \leftarrow A + \text{SIGMA}(C[i] \times D[i])$	$6 + (N \times 8)$
	1	0	0	0	$A \leftarrow A + \text{SIGMA}(C[i] \times D[i]^*)$	
	1	0	1	0	$A \leftarrow \text{SIGMA}(C[i] \times D[i])$	
	1	0	1	1	$A \leftarrow \text{SIGMA}(C[i] \times D[i]^*)$	
VCMAG	1	1	0	0	$A \leftarrow A + \text{SIGMA}(C[i] \times C[i])$	$5 + (N \times 8)$
	1	1	0	1	$A \leftarrow A + \text{SIGMA}(C[i] \times C[i]^*)$	
	1	1	1	0	$A \leftarrow \text{SIGMA}(C[i] \times C[i])$	
	1	1	1	1	$A \leftarrow \text{SIGMA}(C[i] \times C[i]^*)$	

FIG. 7

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

DS1	DS0	EXTERNAL BUFFER SIZE (DM)	CONSTANT ADDRESS BITS	INCREMENTED ADDRESS BITS
0	0	8	A0 , A5 - A23	A1 - A4
0	1	16	A0 , A6 - A23	A1 - A5
1	0	32	A0 , A7 - A23	A1 - A6
1	1	64	A0 , A8 - A23	A1 - A7

FIG.8

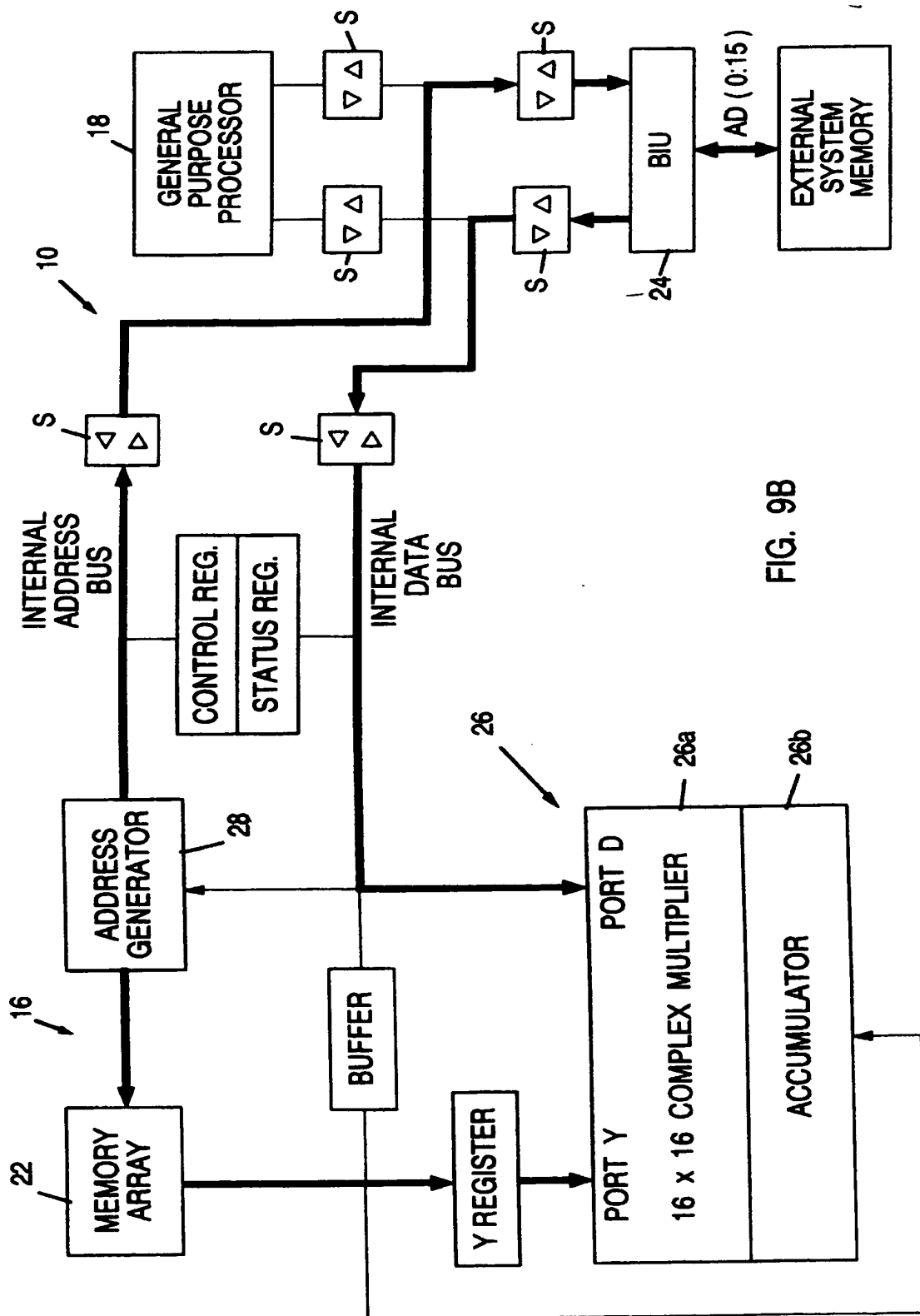


FIG. 9B

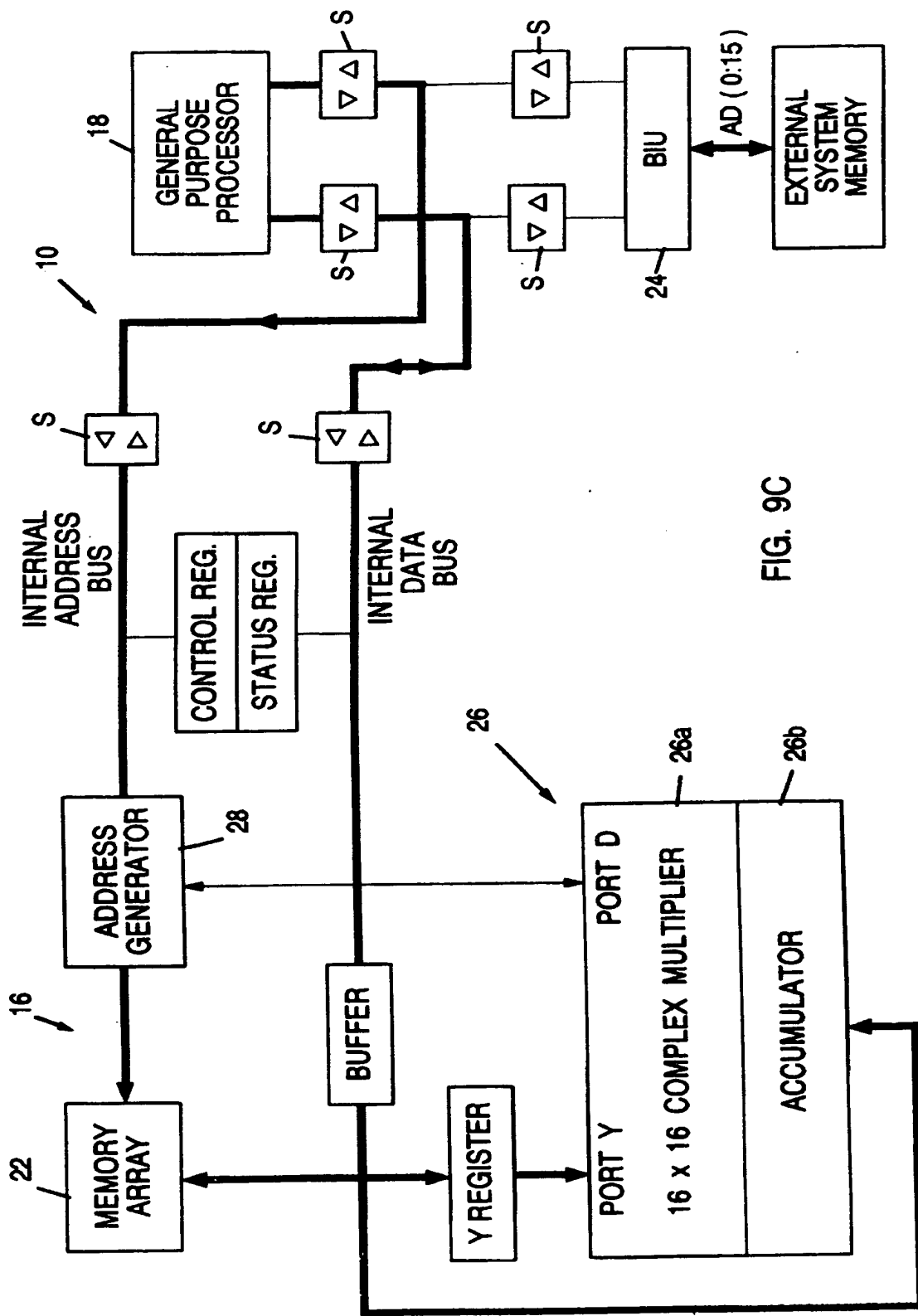


FIG. 9C

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